



**DEQ**  
Michigan's  
Nonpoint Source  
Program

## Clean Michigan Initiative Clean Water Fund Grant

#2001-0020



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### Stark Road Sanitary Sewer Extension

January 2002 through December 2003

The goal of this project was to eliminate E.coli and other fecal coliforms discharging from the septic systems of the 30 homes and a commercial business in and around the Stark Drive subdivision in Saginaw County. The project consisted of installing a gravity sanitary sewer system from each home and business, a sanitary sewer pump station, and a sanitary sewer forcemain connected to Thomas Township's existing sanitary sewer system. The new sanitary sewer system allows for all the raw sewage from the homes and business to be directed to Thomas Township's sanitary sewer system, which eventually gets treated at the Saginaw Township Wastewater Treatment Plant, thus eliminating the need for on-site septic systems and the raw sewage discharges from them.



**Grant Amount: \$ 214,200**

**Match Funds: \$ 428,400**

**Total Amount: \$ 642,600**

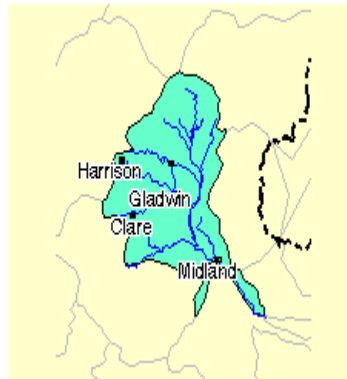
#### Best Management Practices:

- 4,500 Lin. Ft. 6" H.D.P.E
- 1,200 Lin. Ft. 8" Sanitary Sewer
- 1,000 Lin. Ft. 12" Sanitary Sewer
- 1,100 Lin. Ft. 6" Sanitary Sewer
- 9 Each 4" Diameter Manholes
- 1 Lump Sum Pump Station
- Driveway restoration
- Road pavement restoration
- Ditch restoration



#### Annual Load Reductions:

- This project alleviated raw sewage due to failing septic systems, and from new septic systems which had drainfields installed too close to the seasonal high water table resulting in raw sewage discharge into surface water ditches, building foundation drains and directly into surface water pathways.



#### Partners involved:

- Thomas Township-Owner
- Spicer Group, Inc.-Engineer
- 3S Construction-Contractor
- Residents of Stark Subdivision



New sewer lift station



East Stark Drive pre-construction



East Stark Drive post-construction



New Sewer Lift Station



West Stark Drive during construction



West Stark Drive post-construction